



**Decision Support System (DSS)**

**FY 2008 Extracts**

**Technical Manual**

**Version 3.0**

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# Introduction

## Overview

The Decision Support System (DSS) Extracts V. 3.0 software provides a means of exporting data from selected VistA software modules and transmitting it to a Decision Support System (DSS) database residing at the Austin Automation Center (AAC). This transfer is accomplished through a set of extract routines, intermediate files, and transmission routines. Data from VistA packages is stored by the extract routines in the intermediate files where it is temporarily available for local use and auditing. The data is then transmitted to the AAC where it is formatted and uploaded into commercial software. After the data has been successfully uploaded into the commercial software, it is purged from the intermediate files.

## Functions of the Software

The DSS Extracts V. 3.0 software provides the following functions.

- Implements extracts' processes
- Schedules extracts
- Verifies extracts against other VistA reports
- Transmits extracts to commercial software
- Verifies transmission
- Allows purging of extracts

## Related Manuals

DSS Extracts V. 3.0 Extract Formats and Data Definitions Guide  
DSS Extracts V. 3.0 Extracts Installation Guide  
DSS Extracts V. 3.0 Extracts Release Notes  
DSS Extracts V. 3.0 Extracts User Manual





# Orientation

This manual is recommended for use as a reference document for technical users of the software (e.g., ADPACs and IRM Staff). You can find information concerning package security in the Security Section of this manual.

## **User Responses**

User responses in the examples presented in this manual are shown in bold type.



# General Information

## Namespace Information

The namespace assigned to the DSS Extracts V. 3.0 software is ECX.

## Background Job Options

There are no routine background jobs that must be run to maintain normal package operation for DSS Extracts V. 3.0; however, if you choose to perform a DSS data extract, it **must** be queued as a background task (through TaskManager). You can stop the extract background task while it is running by using the *TaskMan User* [XUTM USER] option. Data in this incomplete extract should then be purged using the *Purge Data from Extract Files* [ECXPURG] option. For more information about data purging, please refer to the Archiving and Purging Section of this manual.

Both SAS and Extract Audit reports can be printed to the screen, printed directly to a print device, or queued to a print device. If queued as a background task, you can stop the background task while it is running by using the *TaskMan User* [XUTM USER] option. All other reports can only be printed as queued background jobs and cannot be stopped through the *TaskMan User* [XUTM USER] option.

The following functions must be queued as background tasks.

Function	Menu Option
Transmission of extract data	<i>Transmit Data from Extract Files</i> [ECXTRANS] - Can be stopped through the <i>TaskMan User</i> [XUTM USER] option
Purging of extract data	<i>Purge Data from Extract Files</i> [ECXPURG] - Cannot be stopped

## Resource Requirements

### Size Estimates for Extracts

Extract Name	Bytes per Record (Estimated Mean Size)
ADM Admissions Extract	350
CLI Clinic Extract	485
ECQ QUASAR Extract	450
ECS Event Capture Extract	450
IVP IV Pharmacy Extract	500
LAB Laboratory Extract	250
LAR Lab Results Extract	200
LBB Blood Bank Extract	200
MOV Physical Movement Extract (Transfer and Discharge)	225
MTL Mental Health Extract	350
NUR Nursing Extract	175
NUT Nutrition Extract	200
PAS PAI File Extract	175
PRE Prescription Extract	425
PRO Prosthetics Extract	400
RAD Radiology Extract	300
SUR Surgery Extract	425
TRT Treating Specialty Change Extract	275
UDP Unit Dose Extract	375

One cross-reference is exported with the extract files. The bytes per record estimates seen in this table include the file cross-reference. Any locally created cross-references will also add to the size of the files.

### **Special Note on Files #728.113 and #728.904**

Once the software is installed, IV orders will accumulate in the IV EXTRACT DATA file (#728.113) and Unit Dose orders will begin to accumulate in the UNIT DOSE EXTRACT DATA file (#728.904). These files are loaded dynamically as Pharmacy orders for unit dose and intravenous medicines are processed. Each entry in these files uses approximately 100 bytes.

Extreme caution must be used in maintenance of the IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904). If data in either file is deleted or purged, it *cannot* be regenerated. Therefore, the IVP or UDP monthly extract may be either incomplete or impossible to generate. It is strongly recommended that, at a minimum, sites maintain all data from the *current fiscal year*.

On the other hand, both files can become quite large if appropriate purging is not performed. The file purge option, Purge Data from Extract Files [ECXPURG], deletes from the IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904) by date range. It is recommended that records over two fiscal years old be purged from the IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904).

**Special Note on Files #727.81, #727.809, and #727.819**

The Pharmacy DSS Extract files (#727.81, #727.809, #727.819) are now being audited when entries are edited with the following menu option - Pharmacy Volume Edit [ECX PHA VOL EDIT]. Entries are stored in the AUDIT file (#1.1).

The QUANTITY field will be audited in the PRE, IVP, and UDP extracts. Additionally, the UNIT OF ISSUE field will be audited for the PRE Extract.

**Time Estimates for Extracts**

Extracts generally require 2 to 4 minutes per 1000 records extracted on an Alpha/AXP system and should be queued to run during a non-peak system usage period. The following table contains examples of approximate run times for extracts.

<b>Extract Name</b>	<b>Approximate Length of Time</b>
Admission (ADM) Treating Specialty Change (TRT) Physical Movement (MOV)	Less than ten minutes
Clinic (CLI)	5 hours for 48,000 records
Laboratory (LAB)	6 hours for 100,000 records
Nursing (NUR)	1 hour for 18,000 records
Prescription (PRE)	3.5 hours for 49,000 records

**Data Transmission**

Data is sent to the AAC in VA MailMan mail messages. The first line of each message is a header identifying the site, the extract, the year and month, and SAS version identifier in the following format: 521RAD199710007.

<b>Site</b>	<b>Extract</b>	<b>Year and Month</b>	<b>Version ID</b>
521	RAD	199710	007

As a message is sent, its internal entry number (IEN) is entered in the MESSAGE NUMBER field (#301) of the DSS EXTRACT LOG file (#727). There are options that allow the Extract Manager or designee to monitor this file. As confirmation messages are received from AAC, entries in the MESSAGE NUMBER field (#301) multiple are deleted.



# Implementation and Maintenance

The Maintenance Menu provides a variety of menu options that allow the Extract Manager or designee to:

- Define DSS clinic information
- Define DSS Lab Results Extract information
- Define DSS Inpatient Medications Pharmacy information
- Print a list of feeder keys sorted by feeder system
- Print a list of feeder locations sorted by feeder system
- Set-up for Inpatient Census Information
- Define and create DSS Inpatient Census information
- Access DSS Department Management Menu
- Print Prosthetics YTD PSAS HCPCS Report
- Print Prosthetics YTD Laboratory Report
- Print Pharmacy Extracts Incomplete Feeder Key Report
- Print Extracts Unusual Reports
- Print Lab Results Extract Untranslatable Results Report
- Modify Lab Results Translation Table
- Print CBOC Activity Report
- Make CPT Inquiry
- Print SUR Volume Report
- Print Cost by PSAS HCPCS Report
- Print LBB Pre-Extract Report
- Enter/Edit Nutrition Division Worksheet
- Enter/Edit Nutrition Product Worksheet
- Edit Pharmacy and Pharmacy Log
- Print UDP/IVP Source Audit Report

Please refer to the DSS Extracts V. 3.0 Installation Guide for more information about installing and implementing the software.





# Routines

## **Routine List**

Take the following steps to obtain routines contained in the DSS package.

1. Programmer Options Menu
2. Routine Tools Menu
3. First Line Routine Print Option
4. Routine Selector: **ECX\***

## **Callable Routines/Entry Points/Application Programmer Interfaces (APIs)**

The DSS Extracts software has no callable application programmer interfaces.

## **Routines to Map**

There are no routines in DSS Extracts V. 3.0 that are recommended for mapping.

## **External Interfaces**

There are no external interfaces used by DSS Extracts V. 3.0.



# Files

## Global Placement

DSS Extracts V. 3.0 uses one global for data storage: ^ECX. If you are installing DSS Extracts for the first time, global protection and placement should be made as appropriate.

## File List

The DSS Extracts V. 3.0 software with all patches installed exports the following files. VHA Directive 10-93-142 prohibits local modification of these files. Use the *List File Attributes* option in VA FileMan to print the DDs.

File Number	File Name
727	DSS EXTRACT LOG
727.1	EXTRACT DEFINITIONS
727.2	DSS LAB TESTS
727.3	DSS DIVISION IDENTIFIER
727.4	DSS WARD
727.5	DSS MH TESTS
727.7	LAB RESULTS TRANSLATION
727.802	ADMISSION EXTRACT
727.805	NURSING EXTRACT
727.808	PHYSICAL MOVEMENT EXTRACT
727.809	UNIT DOSE LOCAL EXTRACT
727.81	PRESCRIPTION EXTRACT
727.811	SURGERY EXTRACT
727.812	MENTAL HEALTH EXTRACT
727.813	LABORATORY EXTRACT
727.814	RADIOLOGY EXTRACT
727.815	EVENT CAPTURE LOCAL EXTRACT
727.817	TREATING SPECIALTY CHANGE EXTRACT
727.819	IV DETAIL EXTRACT
727.82	ADMISSION SETUP EXTRACT
727.821	PHYSICAL MOVEMENT SETUP EXTRACT
727.822	TREATING SPECIALTY CHANGE SETUP EXTRACT
727.823	PAI EXTRACT
727.824	LAB RESULTS EXTRACT
727.825	QUASAR EXTRACT
727.826	PROSTHETICS EXTRACT
727.827	CLINIC EXTRACT
727.829	BLOOD BANK EXTRACT
727.831	DSS TREATING SPECIALTY TRANSLATION
727.832	NUTRITION EXTRACT
728	DSS EXTRACTS
728.113	IV EXTRACT DATA
728.44	CLINICS AND STOP CODES
728.441	NATIONAL CLINIC

File Number	File Name
728.45	DSS NUTRITION PRODUCT WORKSHEET
728.46	DSS NUTRITION DIVISION WORKSHEET
728.506	DSS DRUG PRODUCT CODE
728.904	UNIT DOSE EXTRACT DATA
729	DSS PRODUCTION UNIT

## Templates and File Flow

Take the following steps to obtain information about the templates and map the file flow relationships for DSS Extracts V. 3.0 with all patches installed.

Templates	File Flow (Relationships Between Files)
<ol style="list-style-type: none"> <li>1. VA FileMan Menu</li> <li>2. Print File Entries Option</li> <li>3. Output from what File: <b>Print Template</b> <b>Sort Template</b></li> <li>4. Sort by: <b>Name</b></li> <li>5. Start with name: ECX</li> <li>6. <b>Go to name: ECXZ</b></li> <li>7. Within name, sort by: <b>&lt;RET&gt;</b></li> <li>8. First print field: <b>Name</b></li> </ol>	<ol style="list-style-type: none"> <li>1. VA FileMan Menu</li> <li>2. Data Dictionary Utilities Menu</li> <li>3. Map Pointer Relations</li> <li>4. Select PACKAGE NAME: <b>DSS</b></li> <li>5. Remove FILE: <b>&lt;RET&gt;</b></li> <li>6. Add FILE: <b>(Enter name or number for files you want to include in the output. This prompt will repeat.)</b></li> <li>7. Enter name of file group for optional graph header: <b>DSS EXTRACTS//&lt;RET&gt;</b></li> </ol>

# Exported Options

## Menu Outline

The DSS Extracts V. 3.0 software contains one primary menu option, *Extract Manager's Options*, which contains the following five submenus. They are fixed and are not subject to modification except by the software developer(s).

M	Maintenance ...
P	Package Extracts ...
S	SAS Extract Audit Reports ...
E	Extract Source Audit Menu ...
T	Transmission Management ...

## Menu Diagrams

Take the following steps to obtain information concerning the menus exported with the DSS Extracts V. 3.0 software.

1. Programmers Options
2. Menu Management Menu
3. Display Menus and Options Menu
4. Diagram Menus
5. Select User or Option Name: **ECXMGR**

## Standalone Options

All of the DSS Extracts V. 3.0 options are designed to stand-alone.



# Security

## VA FileMan Access Codes

File Name	File Number	DD Access	RD Access	WR Access	DEL Access	LAYGO Access
DSS EXTRACT LOG	727	@		@	@	@
EXTRACT DEFINITIONS	727.1	^		^	^	^
DSS LAB TESTS	727.2	^		^	^	^
DSS DIVISION IDENTIFIER	727.3	^		^	^	^
DSS WARD	727.4	^		^	^	^
DSS MH TESTS	727.5	^		^	^	^
LAB RESULTS TRANSLATION	727.7	^		^	^	^
ADMISSION EXTRACT	727.802	@	@	@	@	@
NURSING EXTRACT	727.805	@	@	@	@	@
PHYSICAL MOVEMENT EXTRACT	727.808	@	@	@	@	@
UNIT DOSE LOCAL EXTRACT	727.809	@	@	@	@	@
PRESCRIPTION EXTRACT	727.81	@	@	@	@	@
SURGERY EXTRACT	727.811	@	@	@	@	@
MENTAL HEALTH EXTRACT	727.812	@	@	@	@	@
LABORATORY EXTRACT	727.813	@	@	@	@	@
RADIOLOGY EXTRACT	727.814	@	@	@	@	@
EVENT CAPTURE LOCAL EXTRACT	727.815	@	@	@	@	@
TREATING SPECIALTY CHANGE EXTRACT	727.817	@	@	@	@	@
IV DETAIL EXTRACT	727.819	@	@	@	@	@
ADMISSION SETUP EXTRACT	727.82	@	@	@	@	@
PHYSICAL MOVEMENT SETUP EXTRACT	727.821	@	@	@	@	@
TREATING SPECIALTY CHANGE SETUP	727.822	@	@	@	@	@
PAI EXTRACT	727.823	@	@	@	@	@
LAB RESULTS EXTRACT	727.824	@	@	@	@	@
QUASAR EXTRACT	727.825	@	@	@	@	@
PROSTHETICS EXTRACT	727.826	@	@	@	@	@
CLINIC EXTRACT	727.827	@	@	@	@	@
BLOOD BANK EXTRACT	727.829	@	@	@	@	@
DSS TREATING SPECIALTY TRANSLATION	727.831	@	@	@	@	@
NUTRITION EXTRACT	727.832	@	@	@	@	@
DSS EXTRACTS	728	@		@	@	@
IV EXTRACT DATA	728.113	@	@	@	@	@
CLINICS AND STOP CODES	728.44	@		@	@	@
NATIONAL CLINIC	728.441	@		@	@	@
DSS NUTRITION PRODUCT WORKSHEET	728.45	@	@	@	@	@
DSS NUTRITION DIVISION WORKSHEET	728.46	@	@	@	@	@
DSS DRUG PRODUCT CODE	728.506					
UNIT DOSE EXTRACT DATA	728.904	@	@	@	@	@
DSS PRODUCTION UNIT	729	^		^	^	^

## Security Management

The DSS Extracts V. 3.0 software does not impose any additional legal requirements on the user nor does it relieve the user of any legal requirements.

## Security Keys

Take the following steps to obtain information about the security keys contained in the DSS Extracts package.

1. VA FileMan Menu
2. Print File Entries Option
3. Output from what File: **SECURITY KEY**
4. Sort by: **NAME**
5. **START WITH NAME: FIRST// ECX**
6. Go to name: last// **ECXZ**
7. Within name, sort by: **<RET>**
8. First print field: **NAME**
9. Then print field: **DESCRIPTION** (word-processing)
10. Then print field: **<RET>**
11. Heading (S/C): **SECURITY KEY LIST// <RET>**
12. Start at page: 1// **<RET>**
13. Device: **PRINTER NAME**

## Mail Groups and Alerts

DSS Extracts V. 3.0 utilizes a number of mail groups. The name of each mail group is prefaced with the letters DSS. There is a mail group for each type of data extract (e.g., DSS-ADMS, DSS-NURS, etc.) for the purpose of receiving messages when extracts are run and when data is transmitted to the AAC. DSS also utilizes mail groups DMS, DMV, and DMU for the purpose of receiving confirmation messages from the AAC.

DSS Extracts V. 3.0 does not utilize alerts.

## Remote Systems

DSS Extracts V. 3.0 transmits messages containing extracted data to a specified queue located at the AAC. Data is transmitted via VA MailMan at the site's discretion. Confirmation messages are received from the AAC indicating that the extract messages were successfully transmitted.



**Contingency Planning**

Technical users of the software should insure that a local contingency plan is used in the event of application problems in a live environment. The plan should identify the procedure(s) for maintaining the functionality provided by the DSS Extracts V. 3.0 software in the event of system outage. Field station Information Security Officers (ISOs) can get assistance from the Regional ISO (RISO).

**Interfacing**

There is no special interfacing required for the Vista DSS Extracts V. 3.0 software.

**Electronic Signatures**

The DSS Extracts V. 3.0 software does not use electronic signatures.



# Archiving and Purging

## Archiving

DSS Extracts V. 3.0 has no archiving capability. There is an option to purge the local extract files after transmission to the commercial software.

## Purging

DSS Extracts V. 3.0 exports the Purge Data from Extract Files [ECXPURG] option which can be used to purge individual extracts residing in Files #727.802 through #727.826, a range of extracts, or data that resides in the intermediate files for the IVP IV EXTRACT DATA file (#728.113) and UDP UNIT DOSE EXTRACT DATA file (#728.904) extracts.

You should exercise extreme caution when purging data for the following reasons:

- Any existing extract may be purged, including transmitted, untransmitted, and extracts that did not run to completion due to errors or system problems.
- Choosing a range of extracts (or a broad date range for the intermediate files) could mean an excessively large number of records to be deleted and may be very resource intensive. Please be sure to queue this purge for non-peak hours and limit the number of extracts to be purged in a single queued session.
- Extreme caution should be used in maintenance of the IV EXTRACT DATA file (#728.113) and the UNIT DOSE EXTRACT DATA file (#728.904). If data in either file is deleted or purged, it *cannot* be regenerated. Therefore, the IVP or UDP monthly extract may be incomplete or impossible to generate. It is strongly recommended that, at a minimum, sites maintain all data from the *current fiscal year*.
- You can only purge divisions that are defined for your entry in the NEW PERSON file (#200).

## Purge Recommendations

Purging of any local VistA extract data or VistA source of extract data (i.e., lab data, etc.) is not recommended until your facility has successfully created extracts, transmitted them to the AAC, audited the counts, loaded the data into DSS, and are content with the results.

The IV EXTRACT DATA file (#728.113) and the UNIT DOSE EXTRACT DATA file (#728.904) can become quite large if appropriate purging is not performed. The file purge option, Purge Data from Extract Files [ECXPURG], deletes records from these files by date range. It is recommended that records over two fiscal years old be purged from IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904).



# External Relations

## Minimum Software Versions Required

At a minimum, the DSS Extracts package relies on the following external packages.

Software Product Name	Minimum Version Required
Admission Discharge Transfer (ADT)	V5.3
Decision Support System (DSS) Extracts	V3.0
Event Capture	V2.0
FileMan	V22.0
Health Level Seven (HL7)	V1.6
Kernel	V8.0
Laboratory	V5.2
Lab: Blood Bank	V5.2
MailMan	V8.0
Mental Health	V5.01
National Drug File (NDF)	V4.0
Nursing	V4.0
Nutrition and Food Service (N&FS)	V5.5
Order Entry/Results Reporting (OE/RR)	V3.0
Outpatient Pharmacy	V7.0
Patient Care Encounter	V1.0
Pharmacy Data Management (PDM)	V1.0
Pharmacy: Inpatient Medications	V5.0
Pharmacy: Outpatient Pharmacy	V7.0
Prosthetics	V3.0
Quality: Audiology and Speech Pathology Audit & Review (QUASAR)	V3.0
Radiology	V5.0
Registration	V5.3
Scheduling	V5.3
Surgery	V3.0

Several MailMan patches were issued to create the necessary entries in the DOMAIN file (#4.2) for the AAC queues. Each facility must ensure that the following patches are installed

XM\*DBA\*85  
 XM\*DBA\*86  
 XM\*DBA\*87  
 XM\*DBA\*88  
 XM\*DBA\*89

### Database Integration Agreements (DBIAs)

Take the following steps to obtain the DBIAs for DSS Extracts V. 3.0.

Custodial Package	Subscriber Package
1. FORUM	1. FORUM
2. DBA Menu	2. DBA Menu
3. Integration Agreements Menu	3. Integration Agreements Menu
4. Custodial Package Menu	4. Subscriber Package Menu
5. Active by Custodial Package Option	5. Print Active by Subscriber Package Option
6. Select Package Name: <b>DSS</b>	6. Start with subscriber package: <b>DSS</b>

## Internal Relations

All of the DSS Extracts options have been designed to stand-alone. Each option may be independently invoked.

## Package-Wide Variables

The DSS Extracts software does not contain any package-wide variables that must be defined or required for the package to run.





# How to Generate Online Documentation

This section describes some of the various methods by which users may secure DSS technical documentation. On-line technical documentation pertaining to the DSS software, in addition to that which is located in the help prompts and on the help screens that are found throughout the DSS package, may be generated through utilization of several KERNEL options. These include but are not limited to *XINDEX*, *Menu Management Inquire Option File*, *Print Option File*, and *FileMan List File Attributes*.

Entering question marks at the "Select ... Option:" prompt may also provide users with valuable technical information. For example, a single question mark (?) lists all options which can be accessed from the current option. Entering two question marks (??) lists all options accessible from the current one, showing the formal name and lock for each. Three question marks (???) displays a brief description for each option in a menu, while an option name proceeded by a question mark (?OPTION) shows extended help, if available, for that option.

For a more exhaustive option listing and further information about other utilities which supply on-line technical information, please consult the VistA Kernel Reference Manual.

## **XINDEX**

This option analyzes the structure of a routine(s) to determine in part if the routine(s) adheres to VistA Programming Standards. The XINDEX output may include the following components: compiled list of errors and warnings, routine listing, local variables, global variables, naked globals, label references, and external references. By running XINDEX for a specified set of routines, the user is afforded the opportunity to discover any deviations from VistA Programming Standards which exist in the selected routine(s) and to see how routines interact with one another, that is, which routines call or are called by other routines.

To run XINDEX for the DSS software, specify the following namespaces at the "routine(s) ?>" prompt: **ECX\***.

DSS initialization routines that reside in the UCI in which XINDEX is being run, compiled template routines, and local routines found within the ECX namespace should be omitted at the "routine(s) ?>" prompt. To omit routines from selection, preface the namespace with a minus sign (-).

## **Inquire To Option File**

To secure information about DSS options, you must specify the name or namespace of the option(s) desired. This Menu Manager option provides the following information about user-specified option(s).

- Option name
- Menu text
- Option description
- Type of option
- Lock (if any)

## **Print Options File**

Use this utility to generate a listing of options from the OPTION file. You can choose to print all of the entries in this file or specify a single option or range of options. To obtain a list of DSS options, specify the ECX option namespace.

## **List File Attributes**

Use this FileMan option to generate documentation pertaining to files and file structure. Use the Standard format to obtain the following data dictionary information for a specified file(s).

- File name and description
- Identifiers
- Cross-references
- Files pointed to by the file specified
- Files which point to the file specified
- Input, print, and sort templates

Additionally, the following information is supplied for each field in the file.

- Field name and number
- Global location
- Description
- Help prompt
- Cross-reference(s)
- Input transform
- Date last edited
- Notes

Use the Global Map format of this option to generate an output that lists the following.

- All cross-references for the selected file
- Global location of each field in the file
- Input, print, and sort templates



# Glossary

AAC	Austin Automation Center
Default Action Codes	Codes entered for all clinics based on the existence of a Medical Administration Service (MAS) credit stop code
DSO	Decision Support Office
DSS	Decision Support System
Extract	Management tool used to track and account for procedures and delivered services that are not handled in any existing VistA package
Interactive Language	The dialogue that takes place between the computer and the user in the form of words in the screen
MAS	Medical Administration Service
Medical Specialty	The specialty section associated with the DSS Unit
QUASAR	Quality: Audiology and Speech Pathology Audit & Review
VistA	Veterans Health Information Systems and Technology Architecture

